AN   106:103918 CA
ED   Entered STN: 05 Apr 1987
TI   Fire-resistant coating materials
IN   Motoki, Hideo; Nakamura, Norinobu
PA   Shikoku Kaken Kogyo K. K., Japan
SO   Jpn. Kokai Tokkyo Koho, 5 pp.
      CODEN: JKXXAF
DT   Patent
LA   Japanese
IC   ICM   C04B035-66
CC   42-10 (Coatings, Inks, and Related Products)
      Section cross-reference(s): 38, 57
FAN.CNT 1

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PI JP 61205675	A2	19860911	JP 1985-48623	19850311
JP 04078586	B4	19921211		
PRAI JP 1985-48623		19850311		

AB   A compn. for a fire-resistant coating is prepd. from a
      water/oil/water-type synthetic polymer dispersion and an inorg. binder or
      its mixt. with sol. alkali metal silicates. The mixed binder may consist
      of the inorg. binder 15-350 and the sol. alkali metal silicate 100 wt.
      parts. Sol. fire retardants may be contained in the core of the polymer
      dispersed phase. Hydrated materials, which lose 15 wt. parts at
      600.degree. based on 100 wt. parts at 100.degree., may be contained in the
      compn. and they may be .gtoreq.1 powder materials of gibbsite, boehmite,
      diaspore Al(OH)3, chabazite, heulandite, mordenite, allophane, halloysite,
      brucite, palygorskite, satin white, **unexpanded
      vermiculite**, and ettringite and/or Al oxides contg. cryst. water
      or adsorbed water. Thus, portland cement 30, Na2SiO3 (30% soln.) 150,
      carboxymethylcellulose 1, and glass fibers 5 wt. parts were mixed with 100
      wt. parts of a water/oil/water-type high polymer dispersion prepd. from a
      water/oil-type PVC dispersion. The center of a cube 75 mm in edge with
      the product reached 350.degree. in 58 min after the form was placed in an
      atm at 1000.degree..
ST   fire resistant coating material; cement coating material; fireproofing
      agent coating material; hydrate coating material; portland cement coating
      material; sodium silicate coating material; alkali metal silicate coating
      material; polyvinyl chloride emulsion coating material; glass fiber
      coating material; CM cellulose coating material

[handwritten annotations:]

greater than or equal to 0.1 parts → no upper limit

∴ Reads on applicants claimed range

Claims 1-6, 9, 10, 11, 13, 14, 15,
16, 17, 18, 19, 20, 21, 23, 24, 25, 26, 27,
28, 29, 30, 31, 32, 34, 35, 36, 38, 39, 40,
41, 42, 43, 44, 45, 46, 47, 48, 49,
52, 53, 54, 62-77